

FIG.1

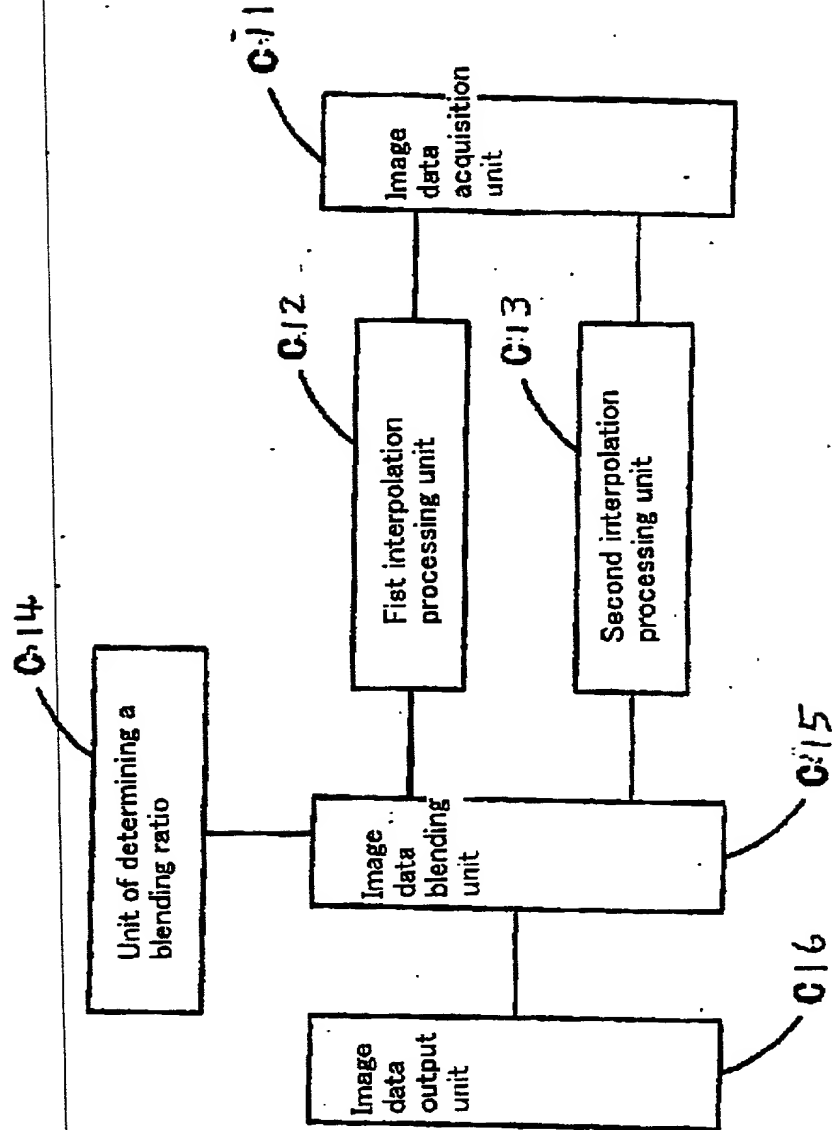


FIG. 2

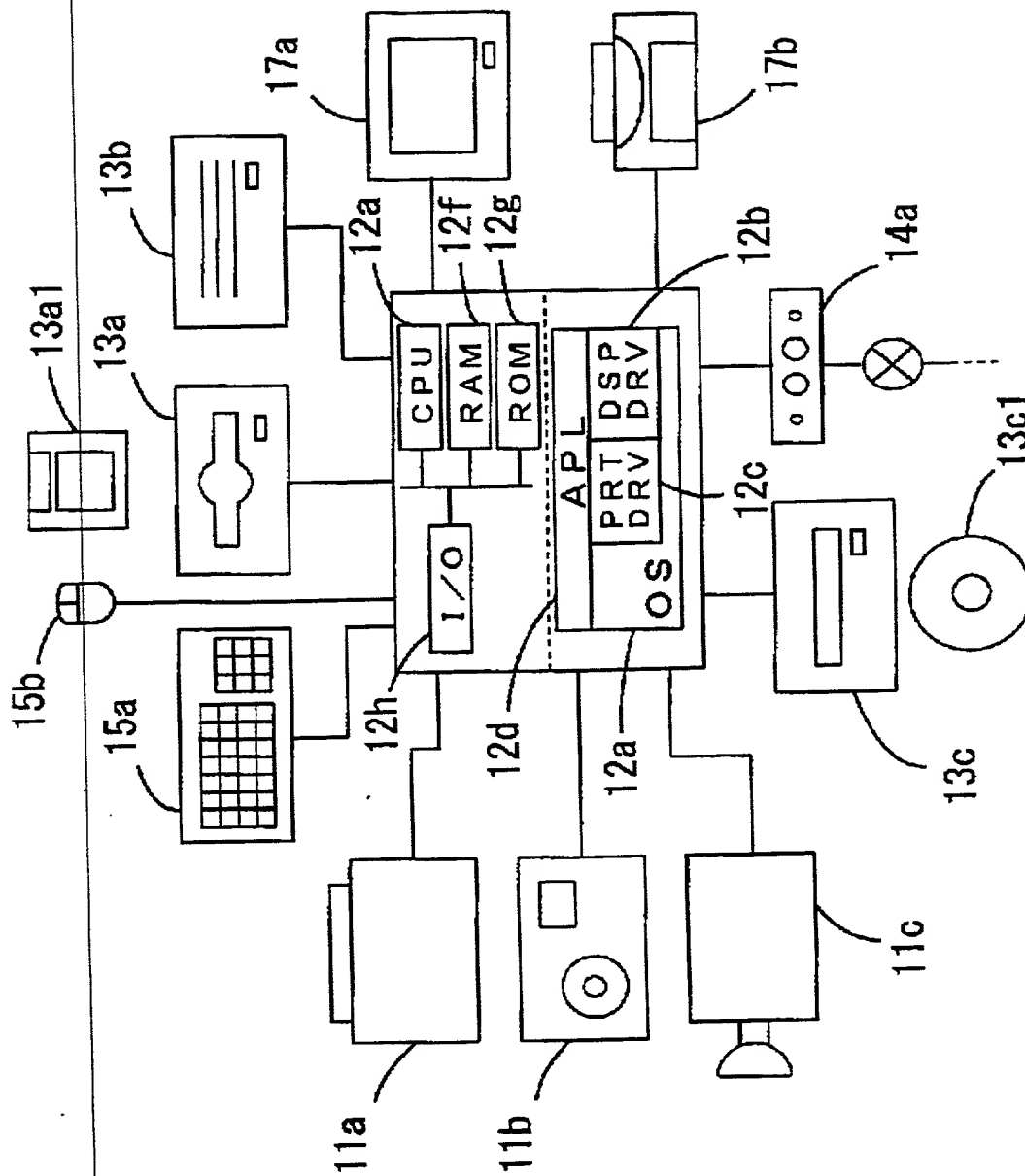


FIG.3

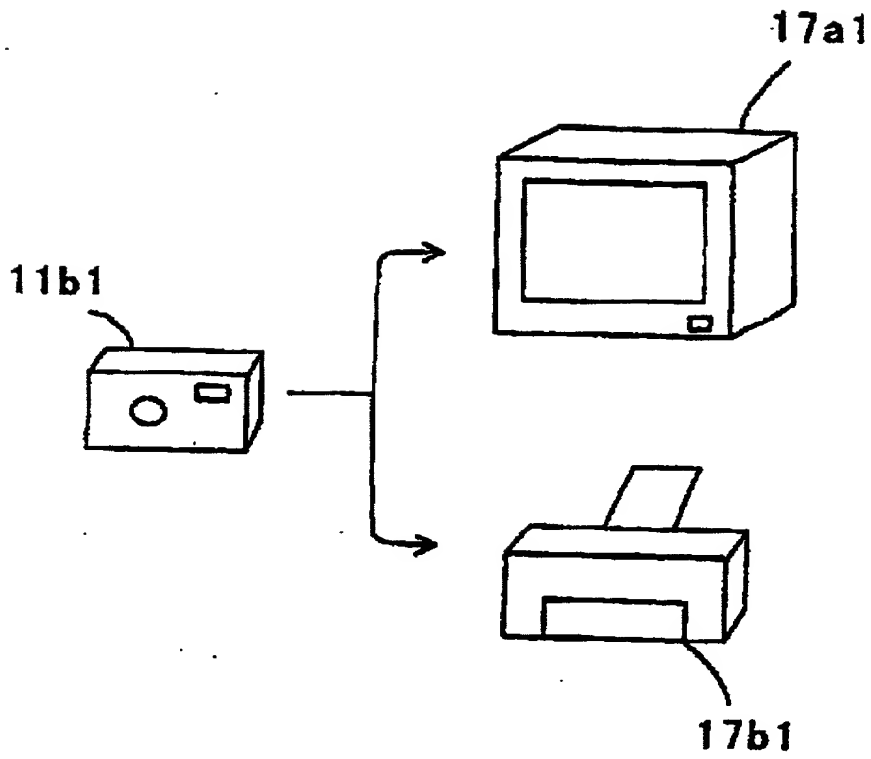


FIG.4

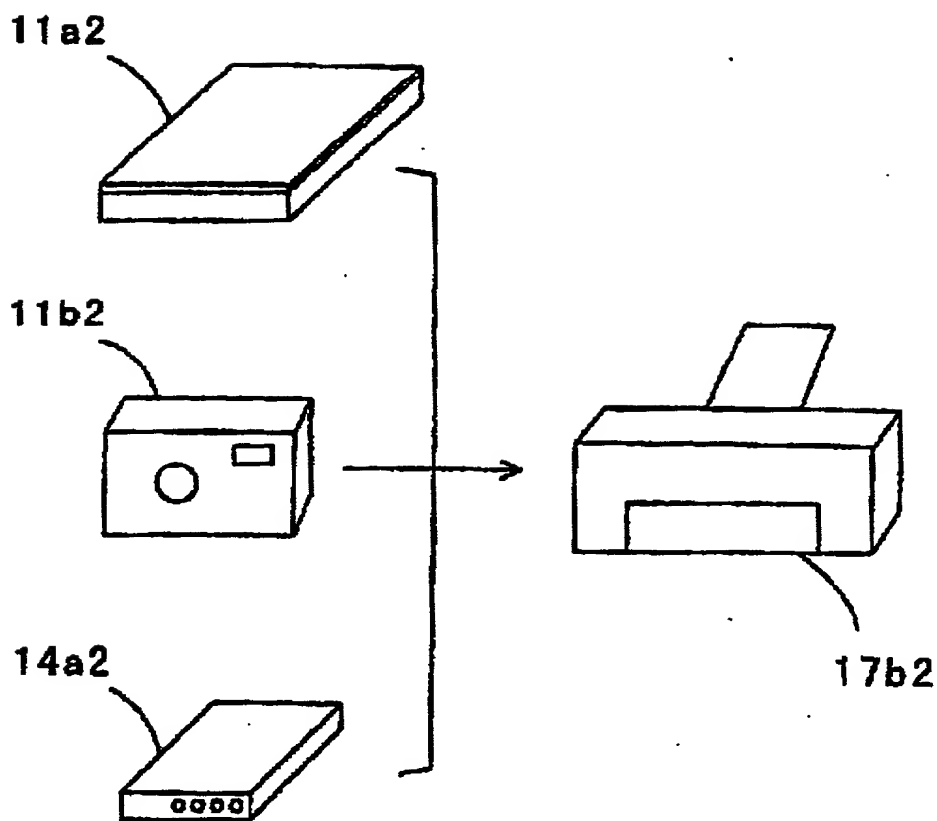


FIG.5

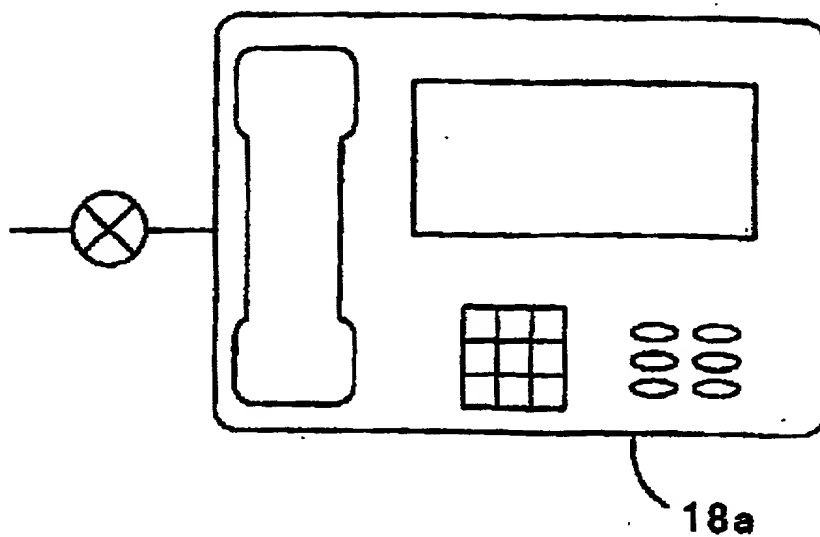


FIG.6

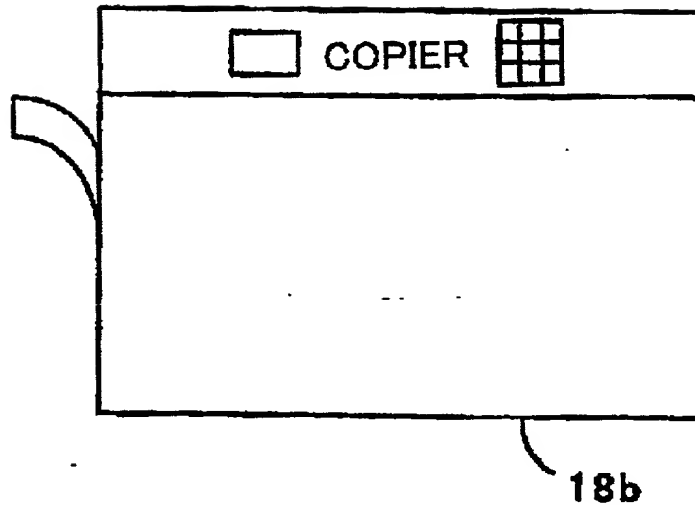


FIG. 7

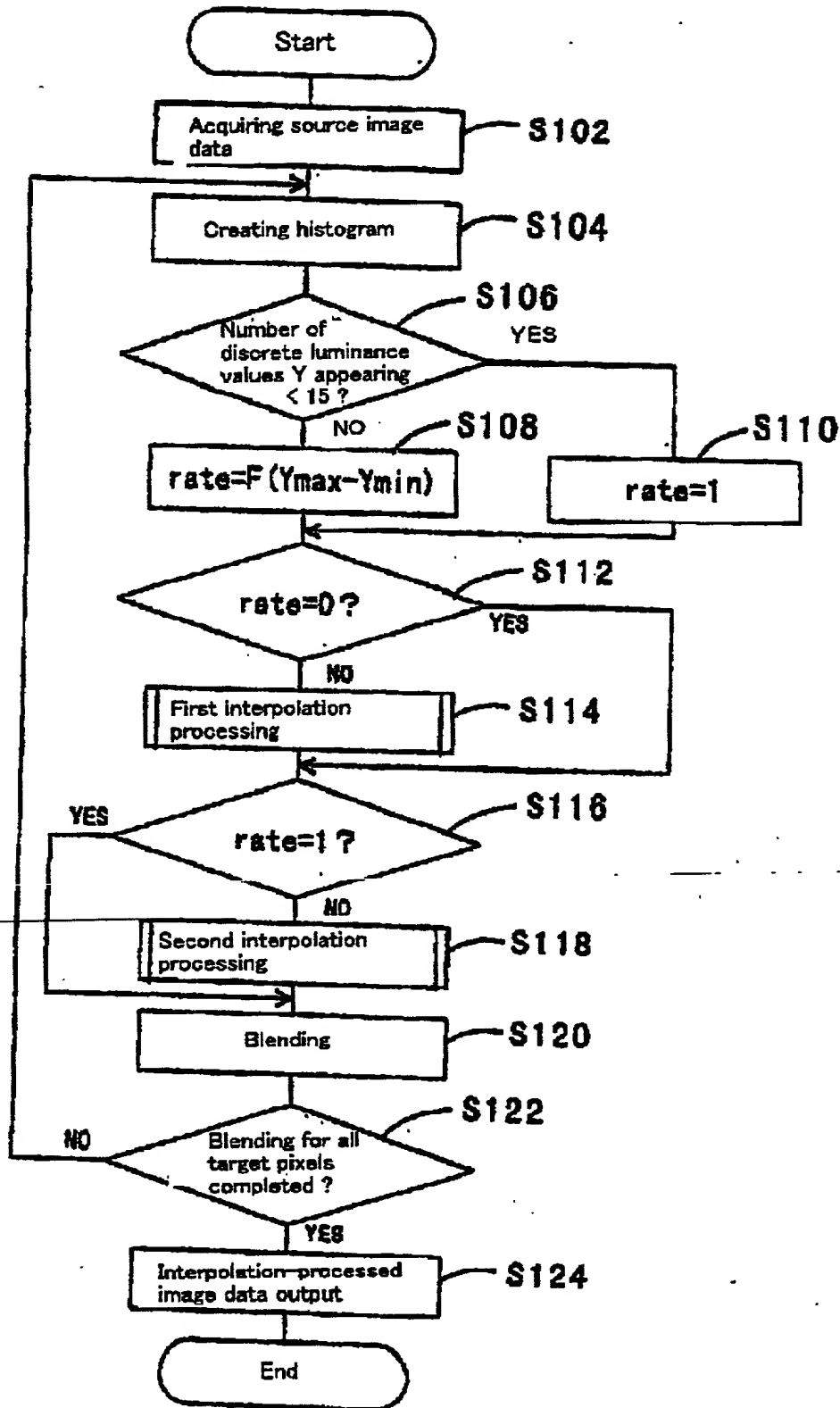


FIG.8

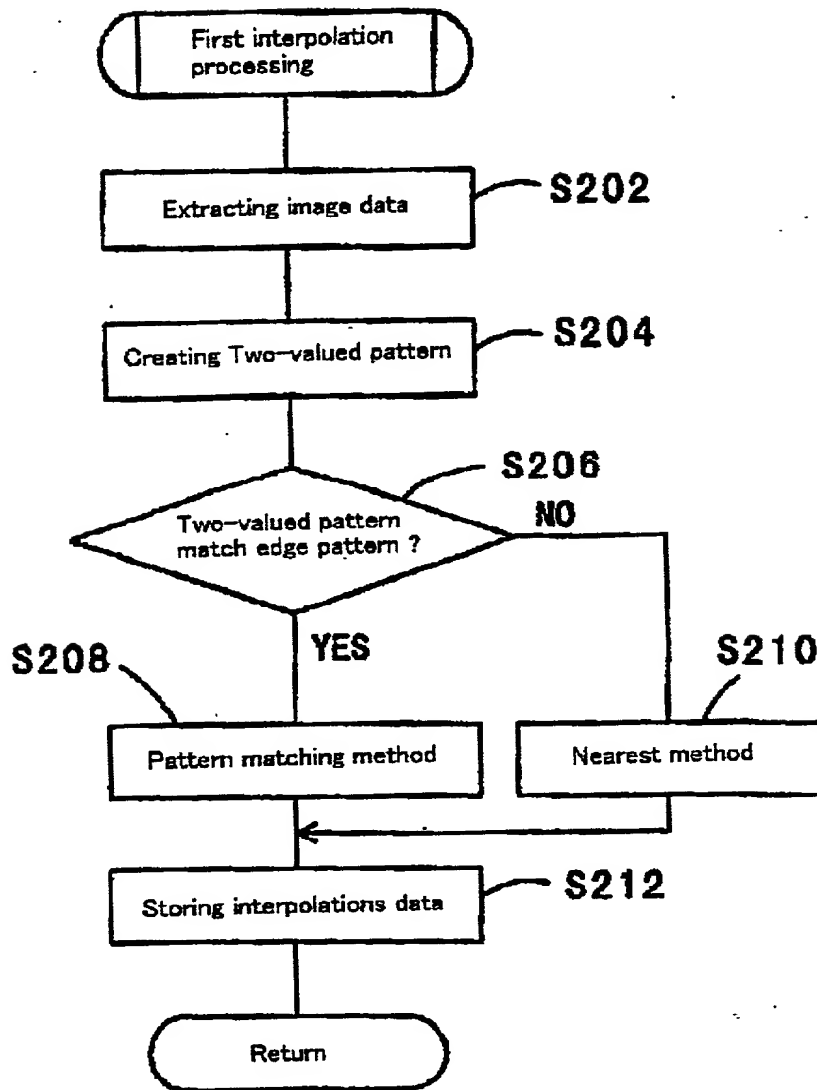


FIG.9

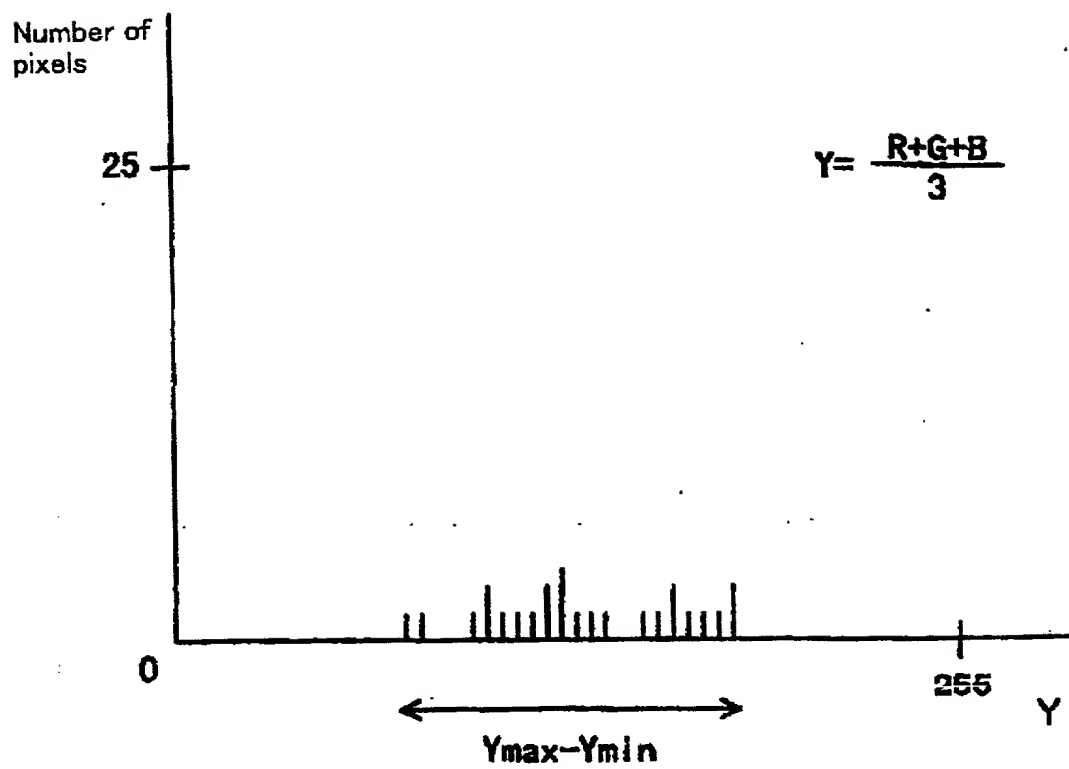


FIG.10

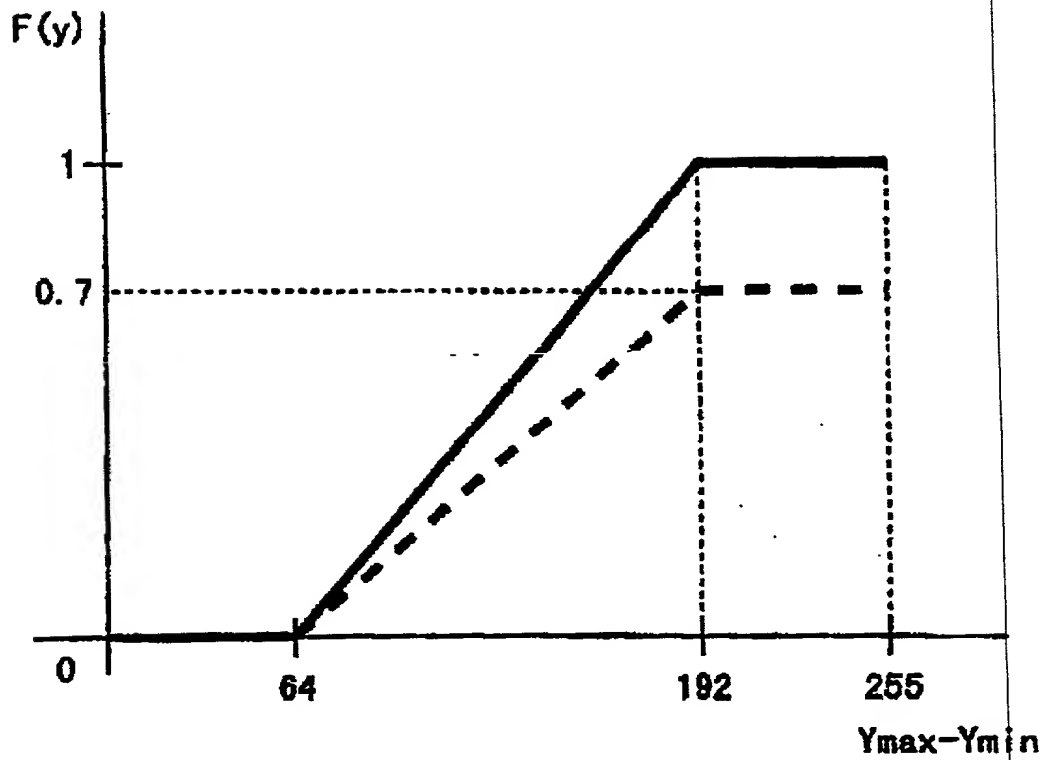
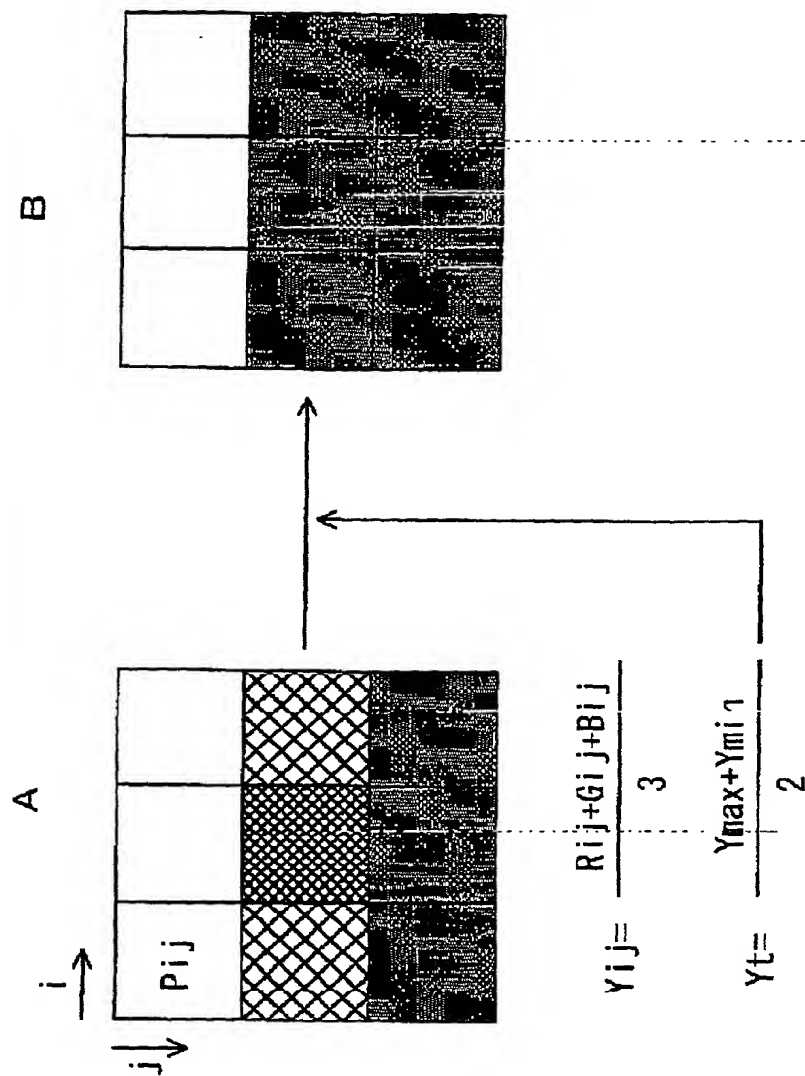


FIG. 11



8

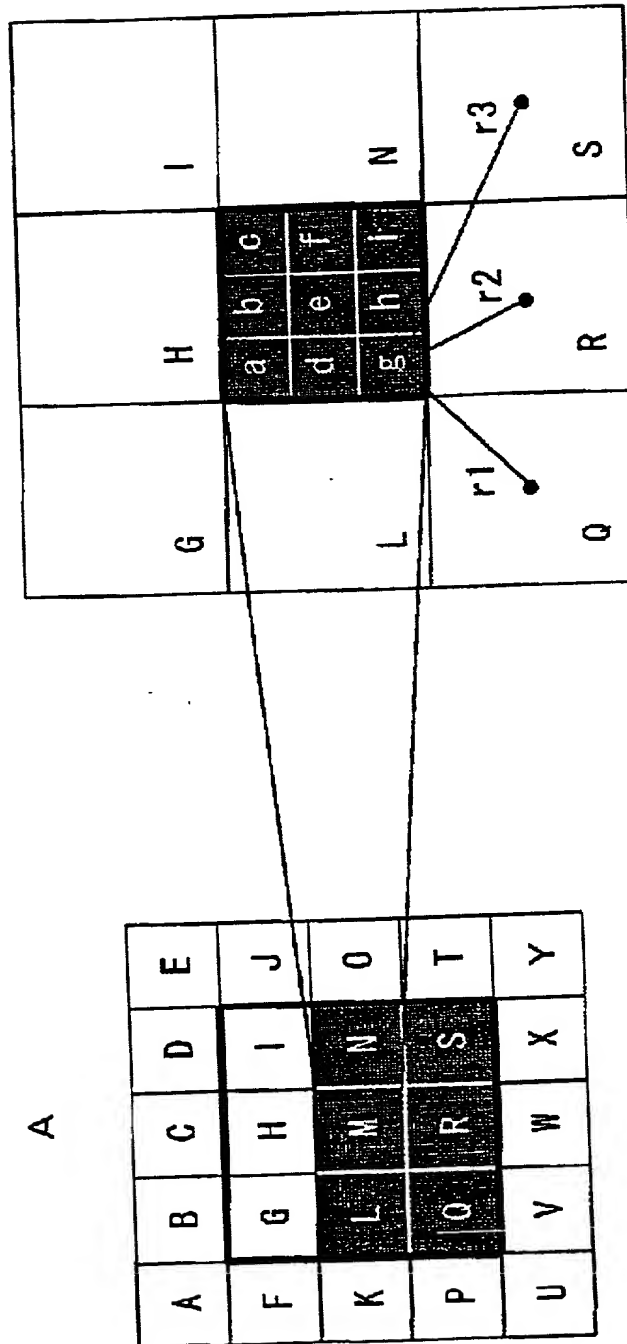


FIG. 13

| | | | | |
|---|---|---|---|---|
| A | B | C | D | E |
| F | G | H | I | J |
| K | L | M | N | O |
| P | Q | R | S | T |
| U | V | W | X | Y |

A

| | | |
|---|---|---|
| a | b | c |
| d | e | f |
| g | h | i |

B

| | | |
|---|---|---|
| G | H | I |
| L | M | N |
| Q | R | S |

C

| | | |
|---|---|---|
| a | b | c |
| d | e | f |
| g | h | i |

D

| | | |
|---|---|---|
| G | H | I |
| L | M | N |
| Q | R | S |

E

| | | |
|---|---|---|
| a | b | c |
| d | e | f |
| g | h | i |

F

FIG.14

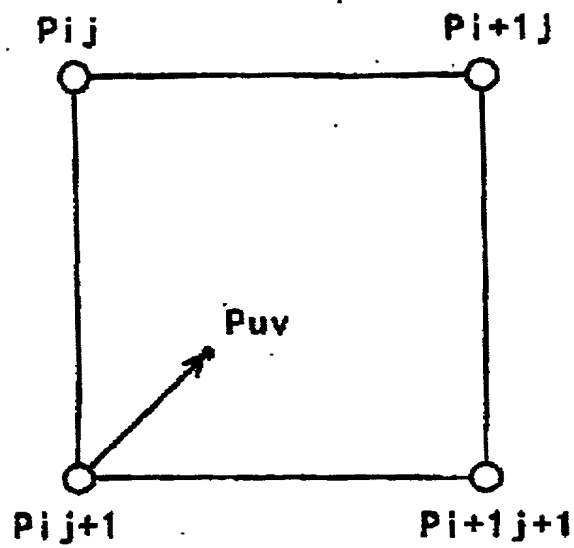


FIG.15

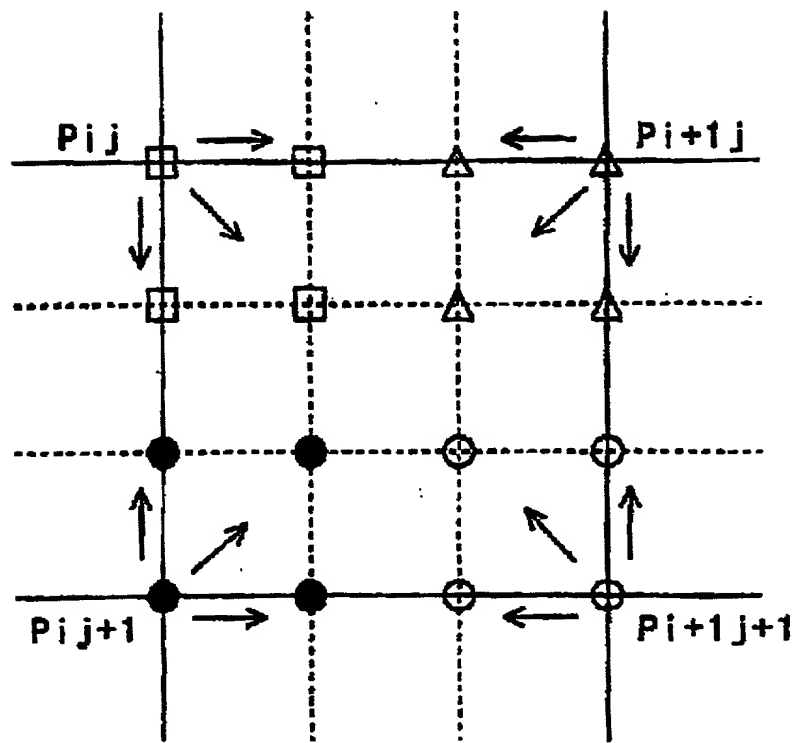
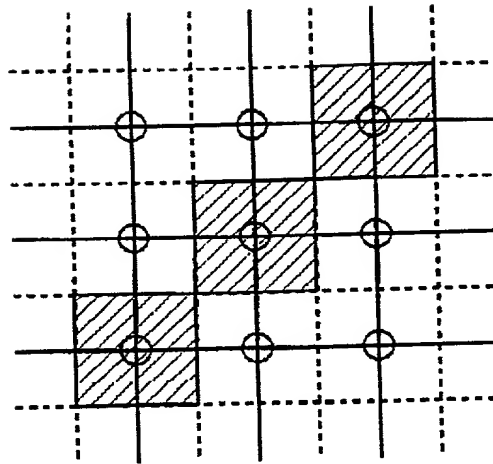
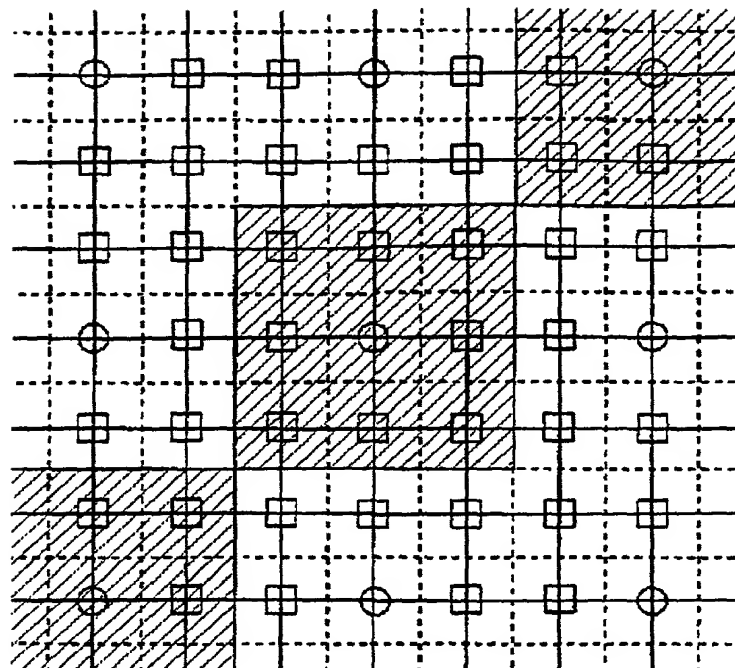


FIG. 16



○ Existing pixel

FIG. 17



○ Existing pixel

□ Pixel of interpolation

FIG.18

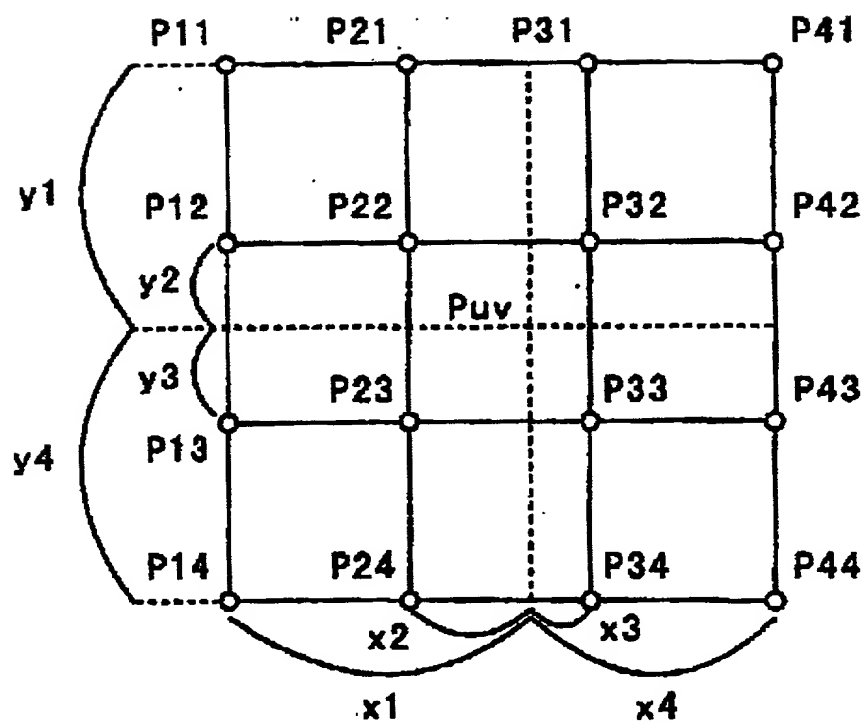


FIG. 19

Interpolating processing

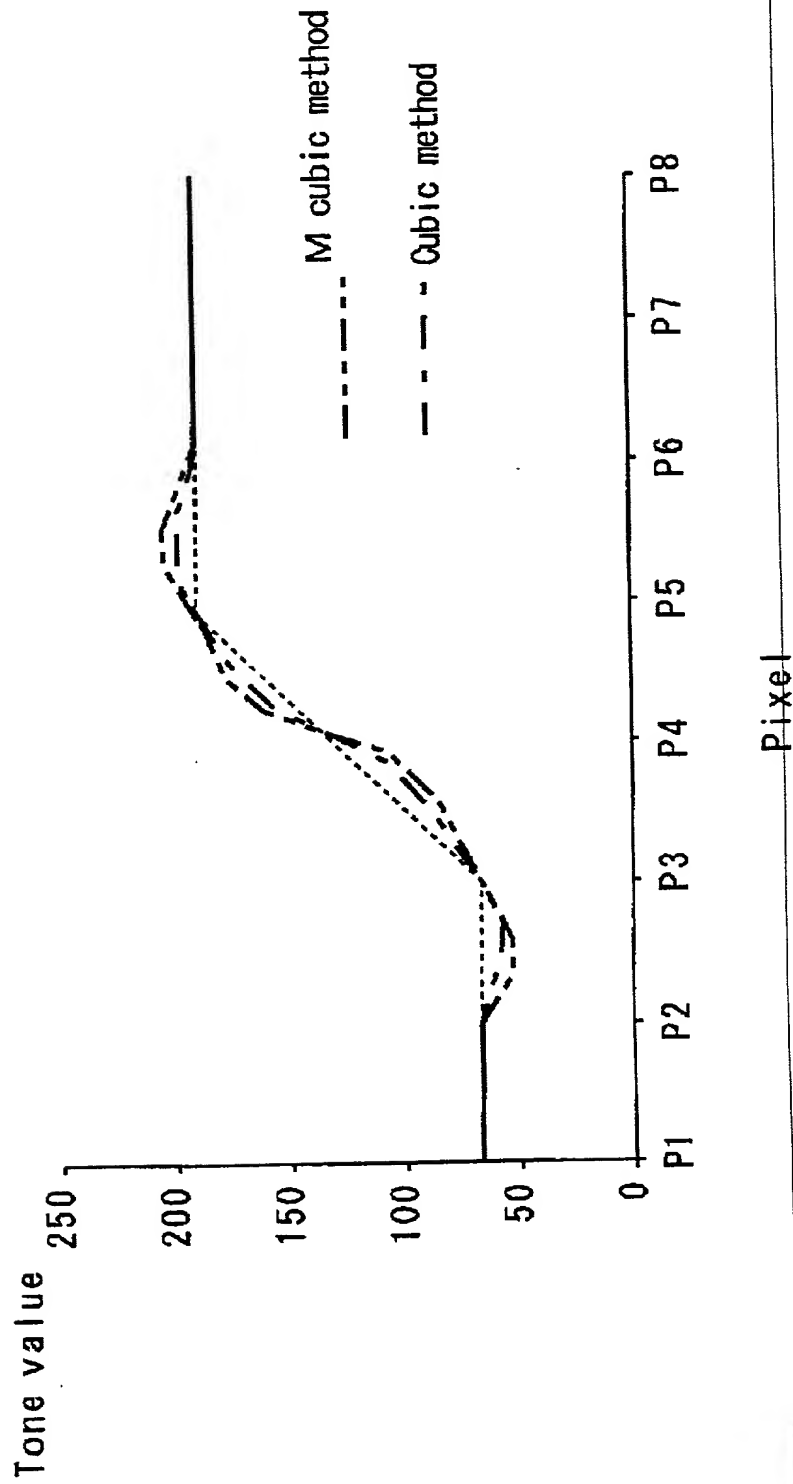


FIG. 20

| Pixel | Original | x1 | x2 | x3 | x4 | f1 | f2 | f3 | f4 | Cubic |
|-------|----------|------|------|------|------|----------|----------|----------|----------|-------|
| 64 | 64 | | | | | | | | | |
| 64 | | | | | | | | | | |
| 64 | | | | | | | | | | |
| 64 | | | | | | | | | | |
| 64 | 64 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 64 |
| 64 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.14063 | 0.890625 | 0.296875 | -0.04688 | 64 |
| 64 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.125 | 0.625 | 0.625 | -0.125 | 64 |
| 64 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.04688 | 0.296875 | 0.890625 | -0.14063 | 64 |
| 64 | 64 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 64 |
| 64 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.14063 | 0.890625 | 0.296875 | -0.04688 | 61 |
| 64 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.125 | 0.625 | 0.625 | -0.125 | 56 |
| 64 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.04688 | 0.296875 | 0.890625 | -0.14063 | 55 |
| 64 | 64 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 64 |
| 80 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.14063 | 0.890625 | 0.296875 | -0.04688 | 77 |
| 96 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.125 | 0.625 | 0.625 | -0.125 | 88 |
| 112 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.04688 | 0.296875 | 0.890625 | -0.14063 | 103 |
| 128 | 128 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 128 |
| 144 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.14063 | 0.890625 | 0.296875 | -0.04688 | 153 |
| 160 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.125 | 0.625 | 0.625 | -0.125 | 168 |
| 176 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.04688 | 0.296875 | 0.890625 | -0.14063 | 179 |
| 192 | 192 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 192 |
| 192 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.14063 | 0.890625 | 0.296875 | -0.04688 | 201 |
| 192 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.125 | 0.625 | 0.625 | -0.125 | 200 |
| 192 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.04688 | 0.296875 | 0.890625 | -0.14063 | 195 |
| 192 | 192 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 192 |
| 192 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.14063 | 0.890625 | 0.296875 | -0.04688 | 192 |
| 192 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.125 | 0.625 | 0.625 | -0.125 | 192 |
| 192 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.04688 | 0.296875 | 0.890625 | -0.14063 | 192 |
| 192 | 192 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 192 |
| 192 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.14063 | 0.890625 | 0.296875 | -0.04688 | 192 |
| 192 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.125 | 0.625 | 0.625 | -0.125 | 192 |
| 192 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.04688 | 0.296875 | 0.890625 | -0.14063 | 192 |
| 192 | 192 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 192 |
| 192 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.14063 | 0.890625 | 0.296875 | -0.04688 | 192 |
| 192 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.125 | 0.625 | 0.625 | -0.125 | 192 |
| 192 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.04688 | 0.296875 | 0.890625 | -0.14063 | 192 |
| 192 | 192 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 192 |
| 192 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.14063 | 0.890625 | 0.296875 | -0.04688 | 192 |
| 192 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.125 | 0.625 | 0.625 | -0.125 | 192 |
| 192 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.04688 | 0.296875 | 0.890625 | -0.14063 | 192 |
| 192 | 192 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 192 |
| 192 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.14063 | 0.890625 | 0.296875 | -0.04688 | 192 |
| 192 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.125 | 0.625 | 0.625 | -0.125 | 192 |
| 192 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.04688 | 0.296875 | 0.890625 | -0.14063 | 192 |
| 192 | 192 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 192 |

FIG. 21

| | Pixel | Original | x1 | x2 | x3 | x4 | f1 | f2 | f3 | f4 | Module |
|-----|-------|----------|------|------|------|------|-------|------|------|-------|--------|
| 64 | P0 | 64 | | | | | | | | | |
| 64 | | | | | | | | | | | |
| 64 | | | | | | | | | | | |
| 64 | | | | | | | | | | | |
| 64 | P1 | 64 | 1 | 0 | 1 | 2 | 0.00 | 1.00 | 0.00 | 0.00 | 61 |
| 64 | P11 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.20 | 0.95 | 0.36 | -0.11 | 61 |
| 64 | P12 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.21 | 0.71 | 0.71 | -0.21 | 61 |
| 64 | P13 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.11 | 0.36 | 0.95 | -0.20 | 61 |
| 64 | P2 | 64 | 1 | 0 | 1 | 2 | 0.00 | 1.00 | 0.00 | 0.00 | 61 |
| 64 | P21 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.20 | 0.95 | 0.36 | -0.11 | 51 |
| 64 | P22 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.21 | 0.71 | 0.71 | -0.21 | 50 |
| 64 | P23 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.11 | 0.36 | 0.95 | -0.20 | 51 |
| 64 | P3 | 64 | 1 | 0 | 1 | 2 | 0.00 | 1.00 | 0.00 | 0.00 | 61 |
| 80 | P31 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.20 | 0.95 | 0.36 | -0.11 | 71 |
| 96 | P32 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.21 | 0.71 | 0.71 | -0.21 | 81 |
| 112 | P33 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.11 | 0.36 | 0.95 | -0.20 | 91 |
| 128 | P4 | 128 | 1 | 0 | 1 | 2 | 0.00 | 1.00 | 0.00 | 0.00 | 128 |
| 144 | P41 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.20 | 0.95 | 0.36 | -0.11 | 157 |
| 160 | P42 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.21 | 0.71 | 0.71 | -0.21 | 174 |
| 176 | P43 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.11 | 0.36 | 0.95 | -0.20 | 183 |
| 192 | P5 | 192 | 1 | 0 | 1 | 2 | 0.00 | 1.00 | 0.00 | 0.00 | 192 |
| 192 | P51 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.20 | 0.95 | 0.36 | -0.11 | 205 |
| 192 | P52 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.21 | 0.71 | 0.71 | -0.21 | 206 |
| 192 | P53 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.11 | 0.36 | 0.95 | -0.20 | 199 |
| 192 | P6 | 192 | 1 | 0 | 1 | 2 | 0.00 | 1.00 | 0.00 | 0.00 | 192 |
| 192 | P61 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.20 | 0.95 | 0.36 | -0.11 | 192 |
| 192 | P62 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.21 | 0.71 | 0.71 | -0.21 | 192 |
| 192 | P63 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.11 | 0.36 | 0.95 | -0.20 | 192 |
| 192 | P7 | 192 | 1 | 0 | 1 | 2 | 0.00 | 1.00 | 0.00 | 0.00 | 192 |
| 192 | P71 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.20 | 0.95 | 0.36 | -0.11 | 192 |
| 192 | P72 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.21 | 0.71 | 0.71 | -0.21 | 192 |
| 192 | P73 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.11 | 0.36 | 0.95 | -0.20 | 192 |
| 192 | P8 | 192 | 1 | 0 | 1 | 2 | 0.00 | 1.00 | 0.00 | 0.00 | 192 |
| 192 | P81 | | 1.25 | 0.25 | 0.75 | 1.75 | -0.20 | 0.95 | 0.36 | -0.11 | |
| 192 | P82 | | 1.5 | 0.5 | 0.5 | 1.5 | -0.21 | 0.71 | 0.71 | -0.21 | |
| 192 | P83 | | 1.75 | 0.75 | 0.25 | 1.25 | -0.11 | 0.36 | 0.95 | -0.20 | |
| 192 | P9 | 192 | 1 | 0 | 1 | 2 | 0.00 | 1.00 | 0.00 | 0.00 | |

FIG. 22

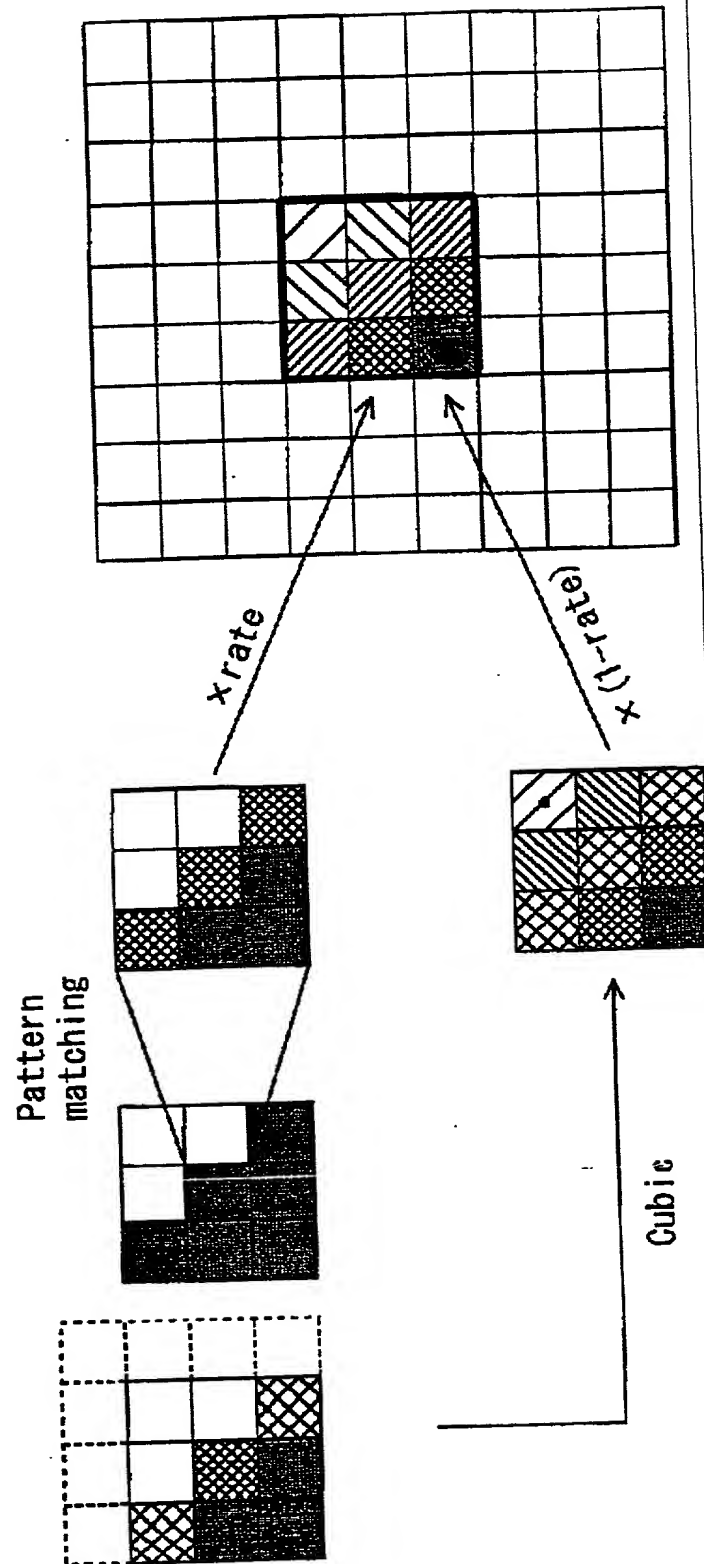


FIG.23

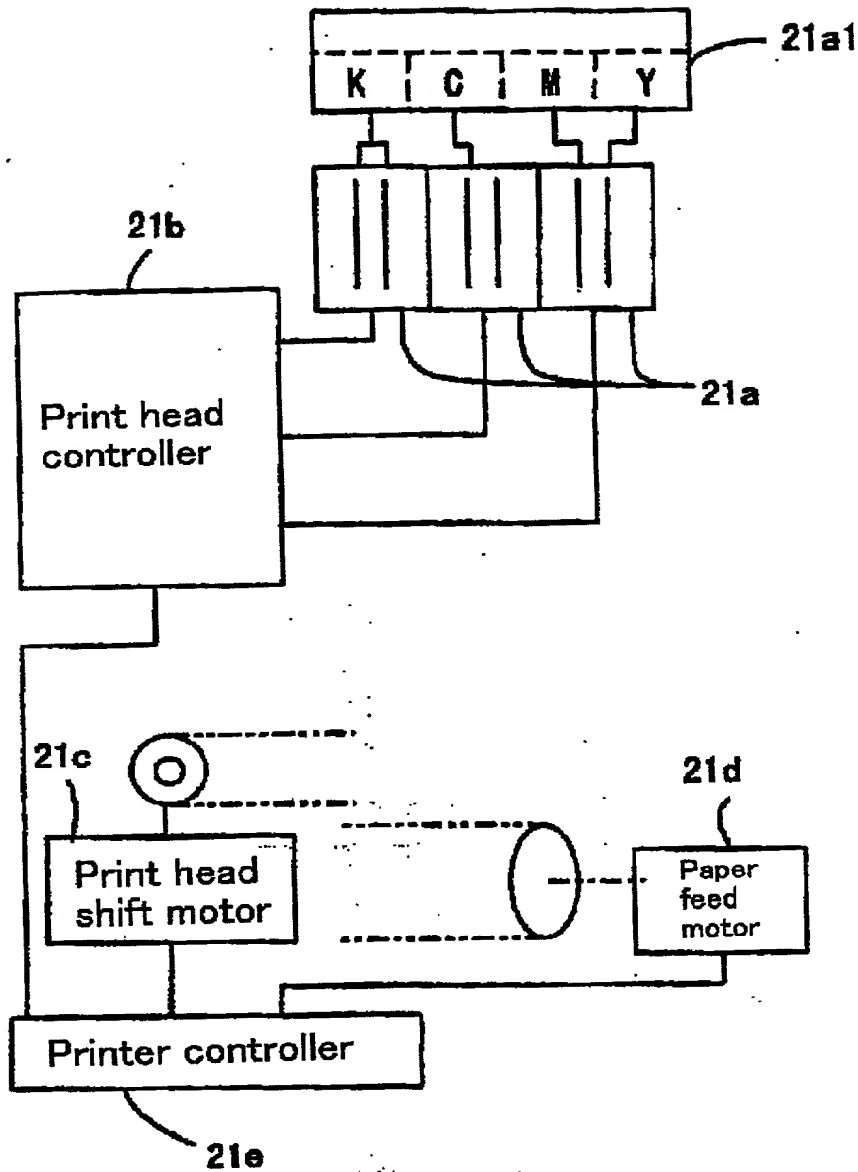


FIG.24

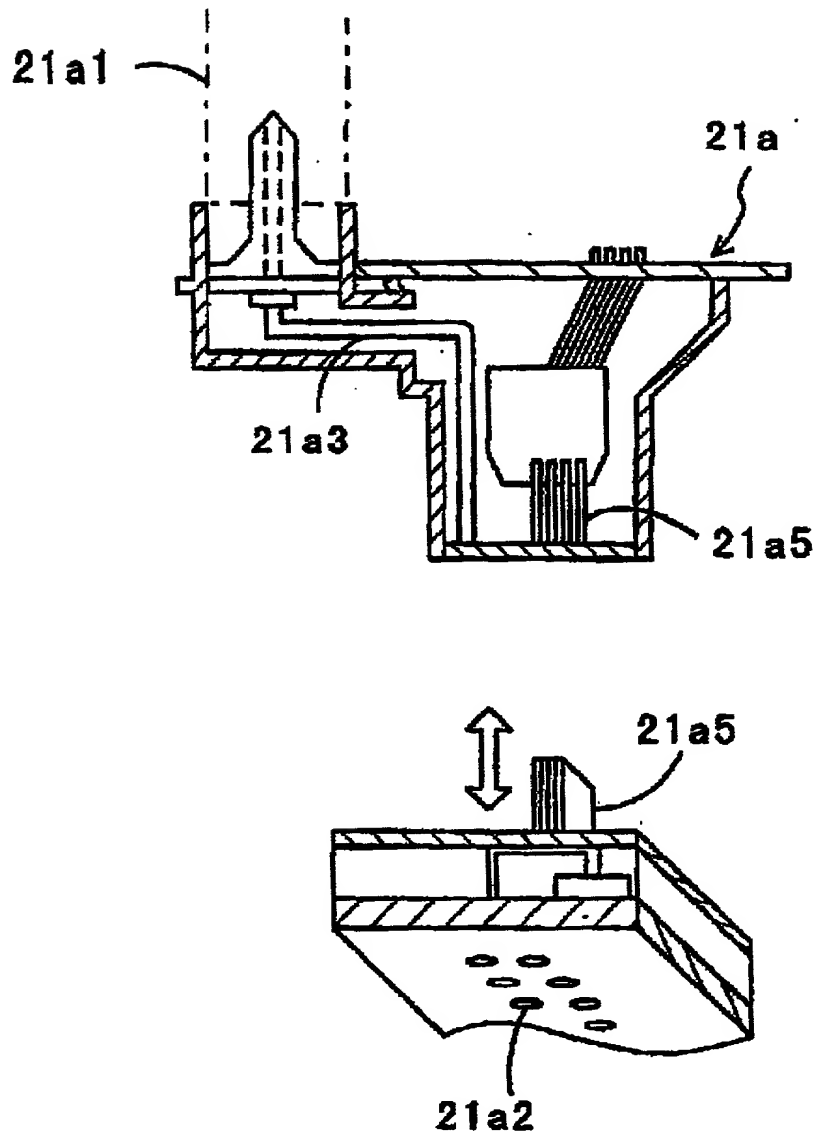


FIG.25

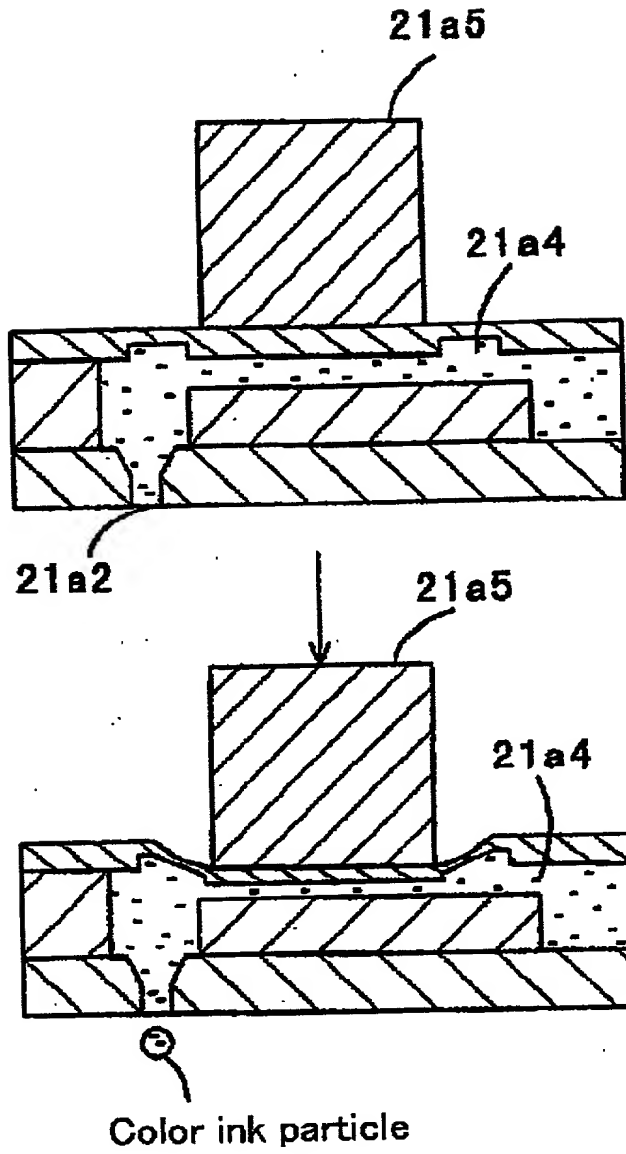


FIG.26

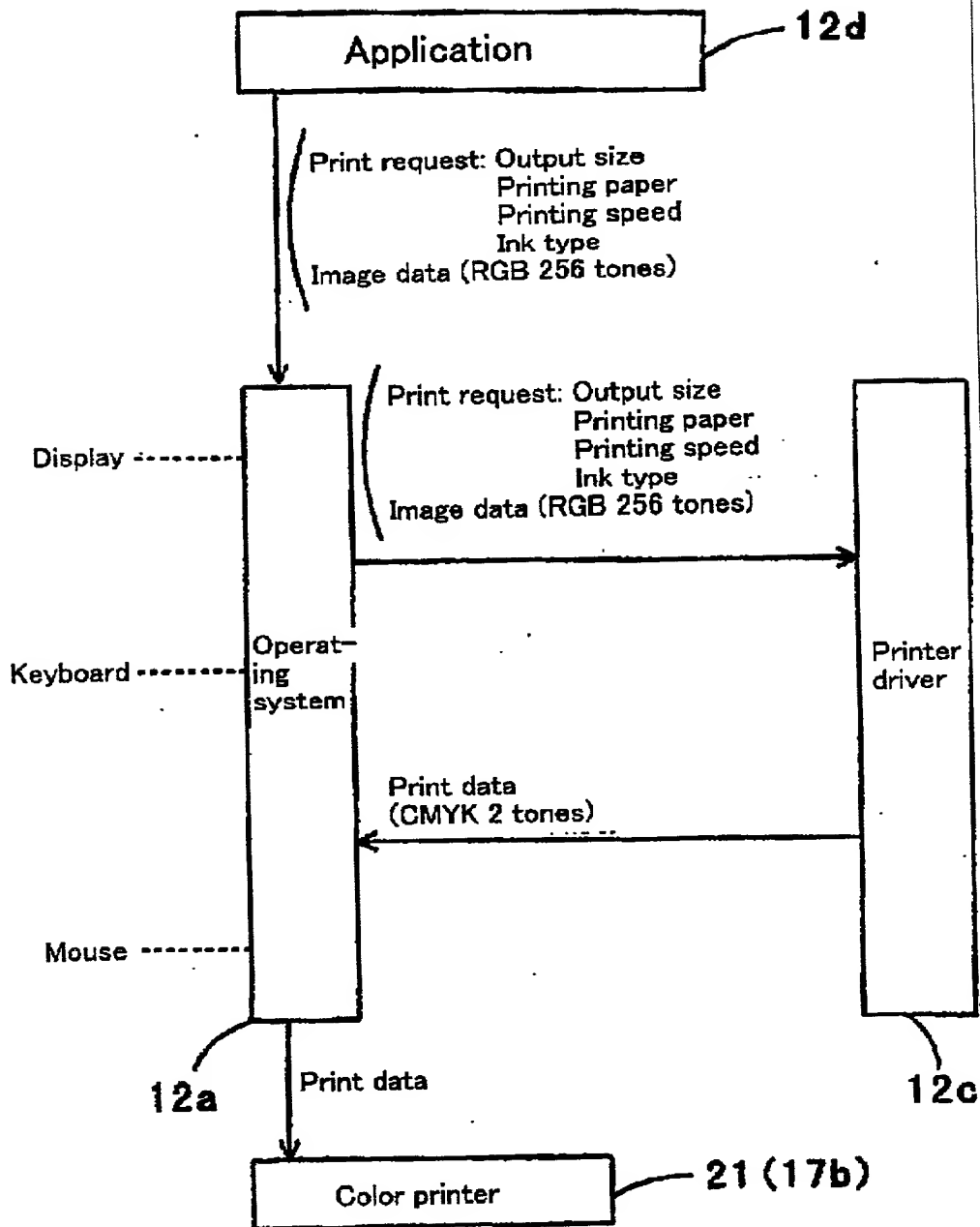


FIG.27A

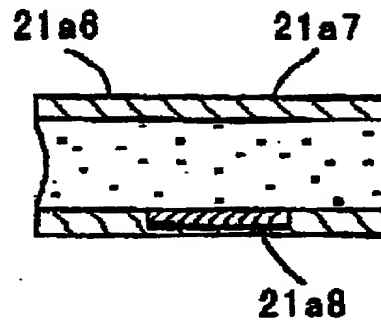


FIG.27B

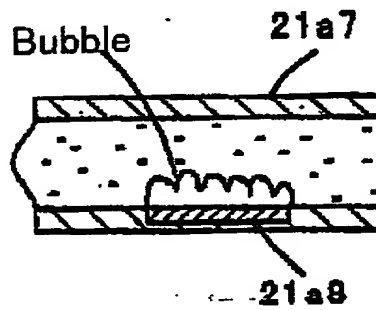


FIG.27C

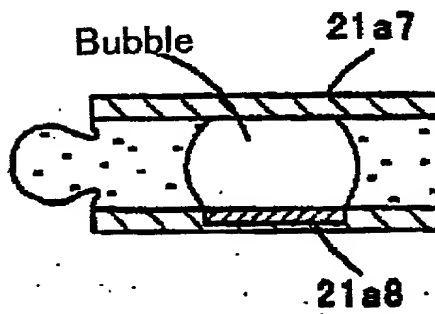


FIG.27D

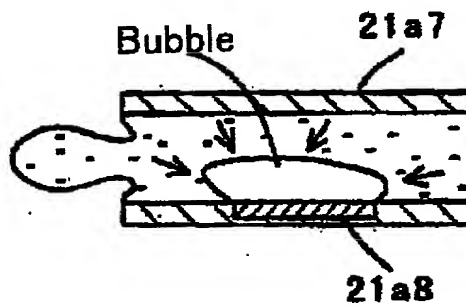


FIG.27E

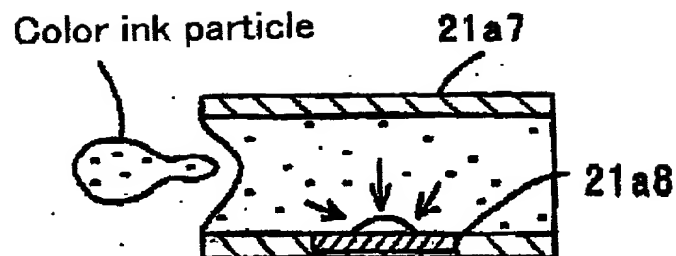


FIG.28

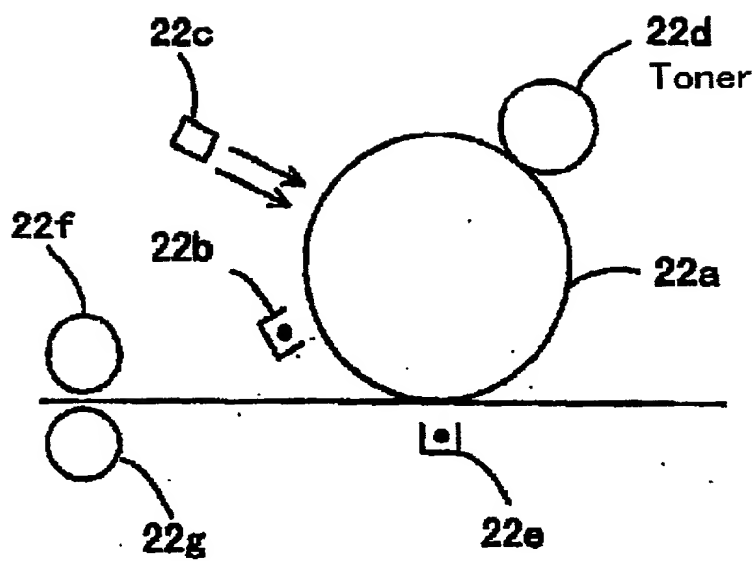


FIG. 29

FIG. 29

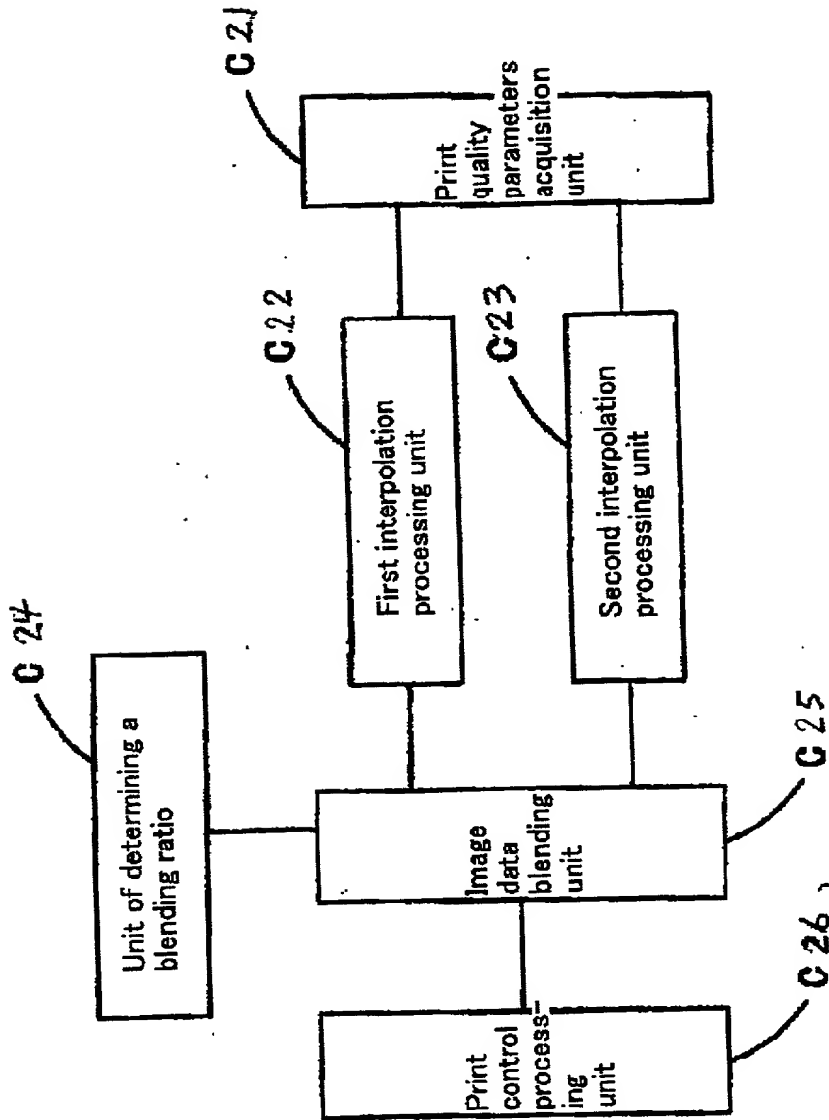


FIG.30

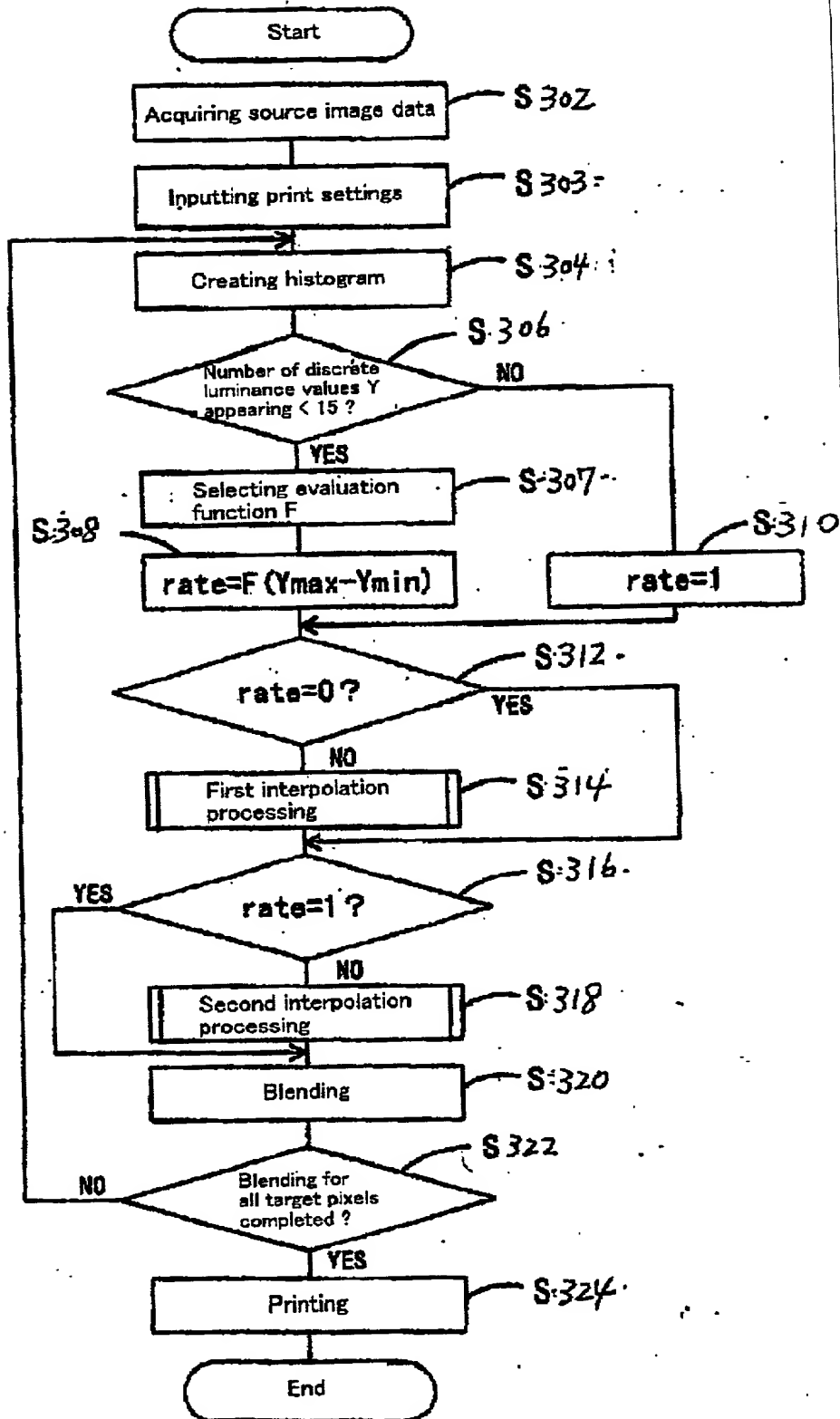


FIG.31

Print

Copies

Start page

End page

FIG.32

Printer setup

Resolution

• 360dpi ☒ 720dpi

Paper

☒ A4 • B5

• Plain paper ☒ Glossy print

Print speed

• High ☒ Low

Ink

☒ Pigment • Dye

OK Cancel

FIG.33

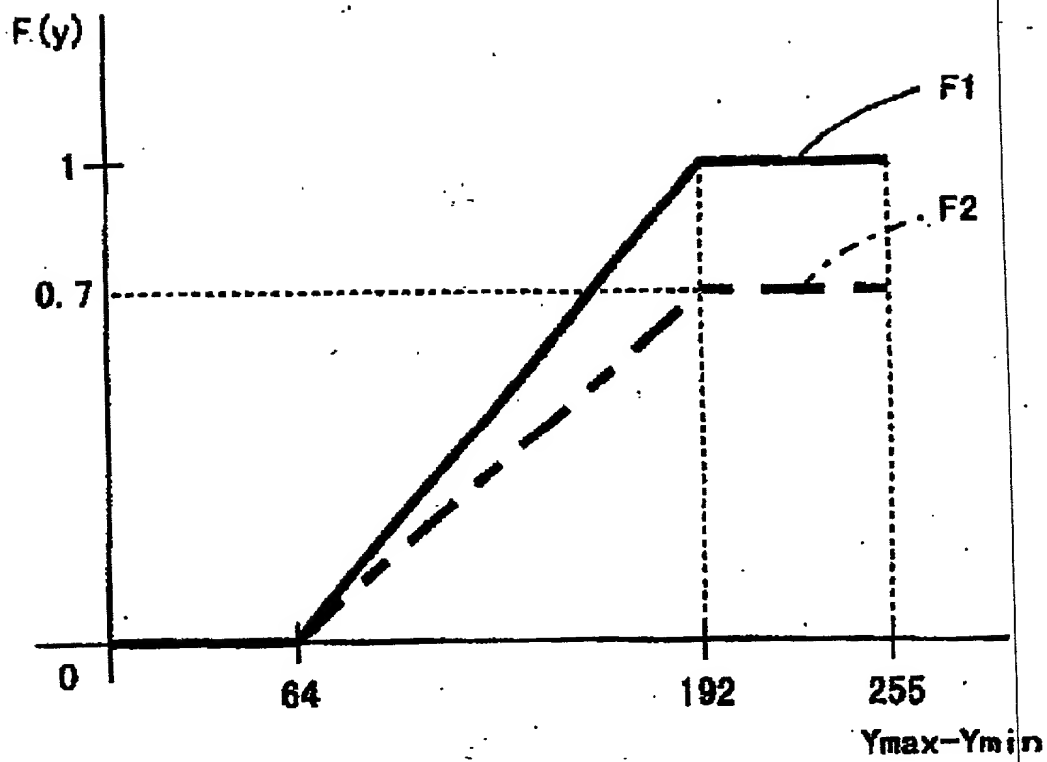
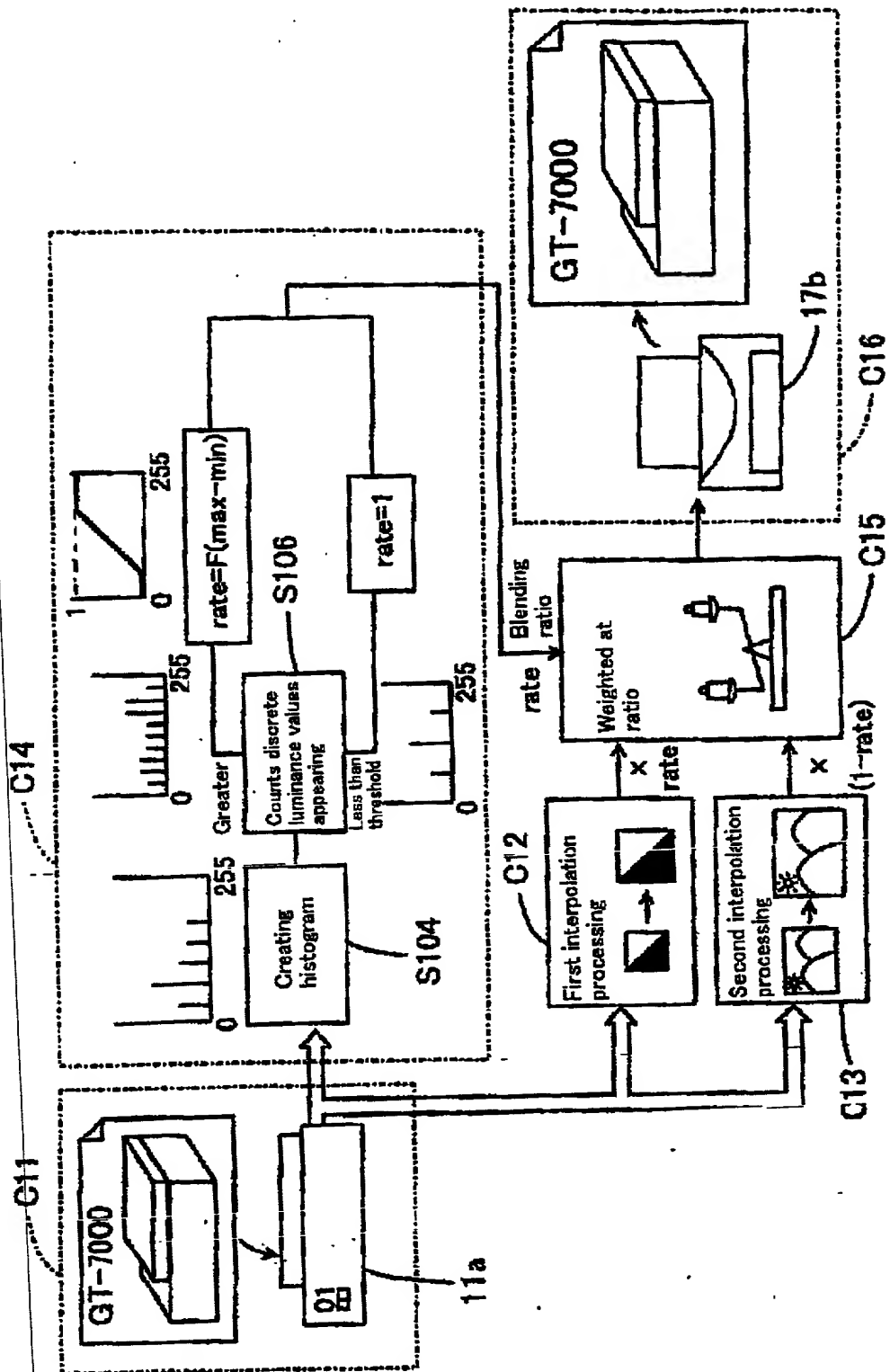


FIG.34



[illegible]

Fig 36

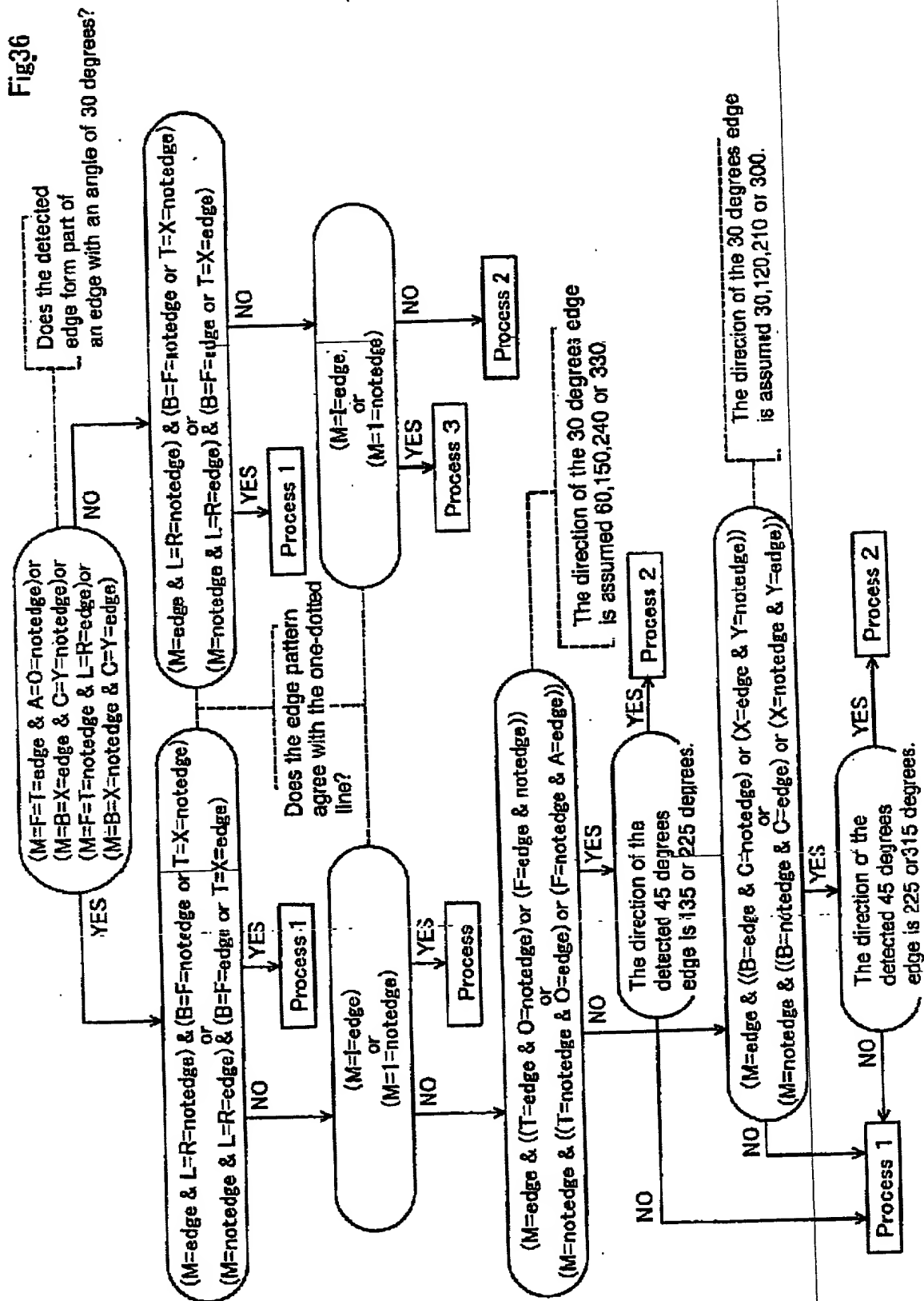


Fig37

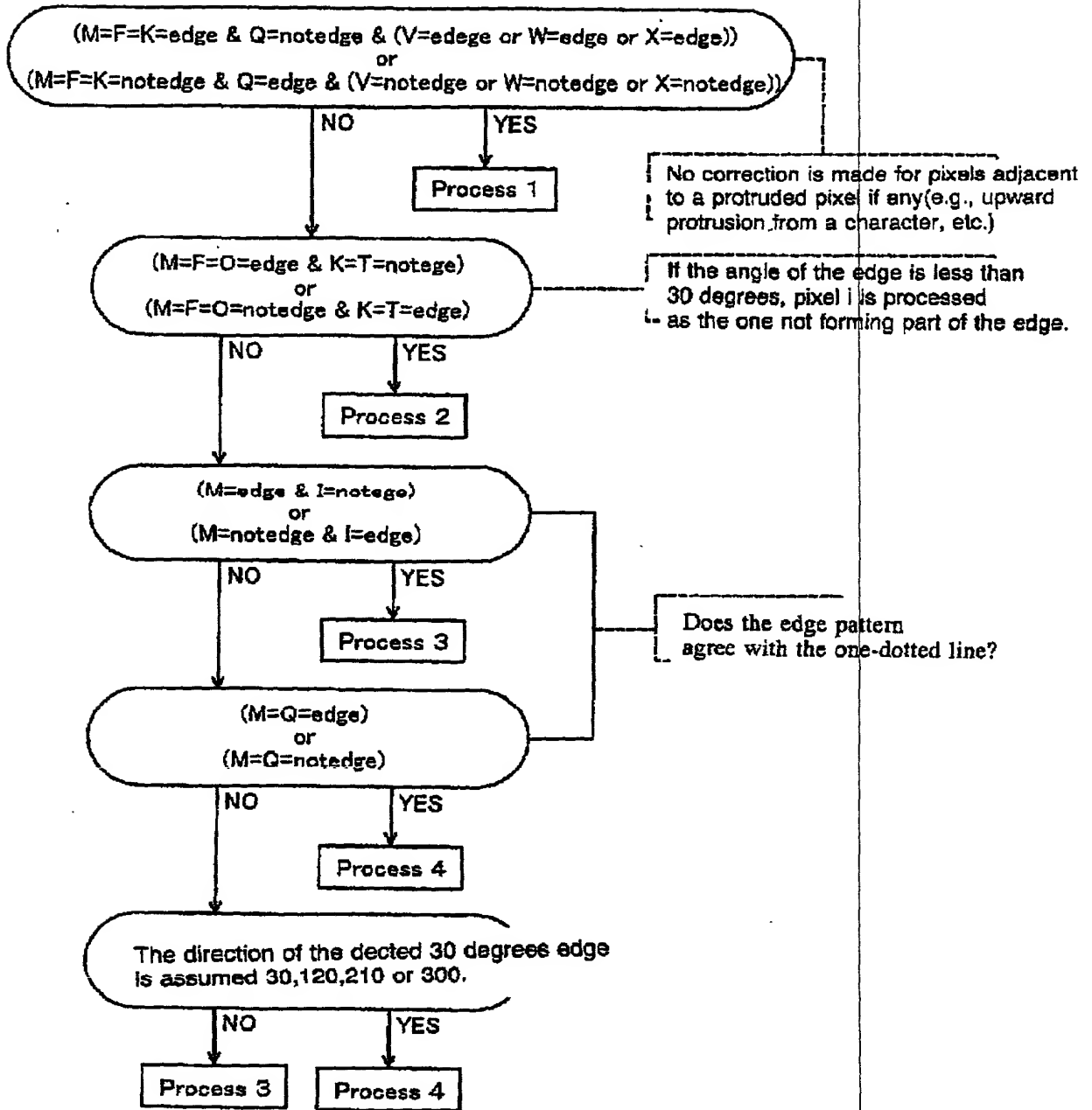


FIG. 38

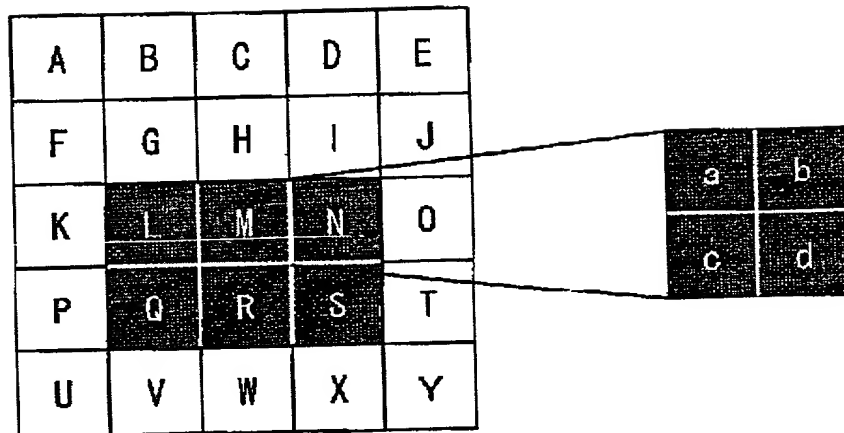


FIG. 39

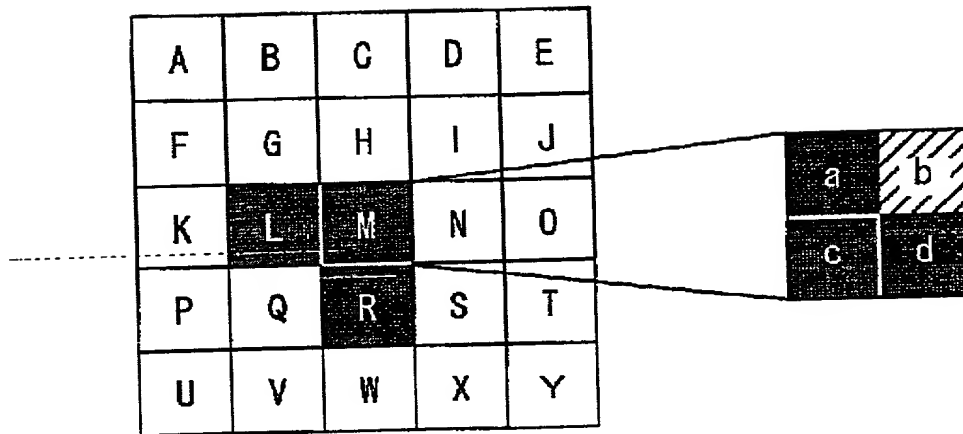


FIG40

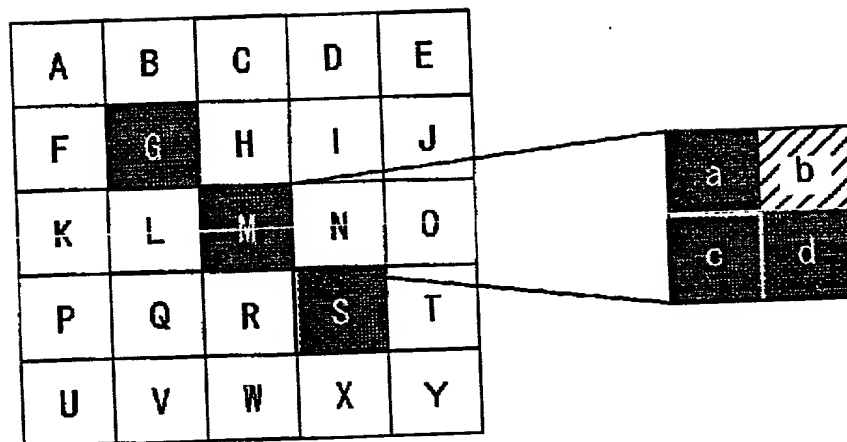


Fig41

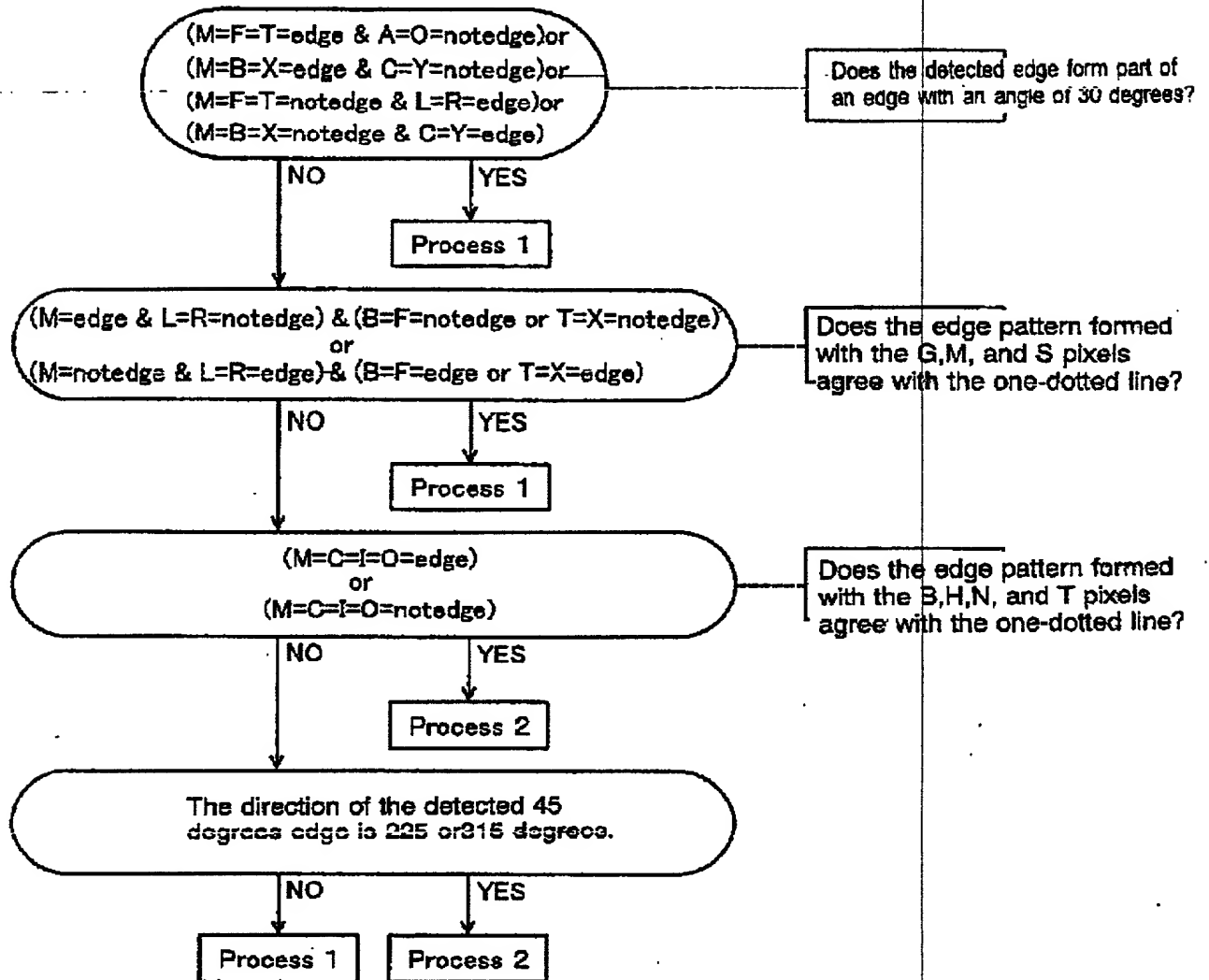


FIG42

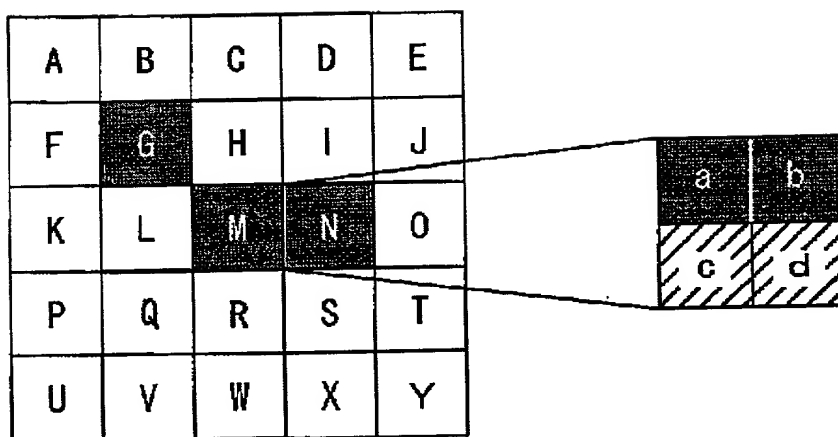


Fig43

